

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09301705 A**

(43) Date of publication of application: **25.11.87**

(51) Int. Cl.

C01B 15/029
B01J 23/40
B01J 23/44

(21) Application number: **08123513**

(22) Date of filing: **17.05.96**

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(54) PRODUCTION OF HYDROGEN PEROXIDE

(57) Abstract:

PROBLEM TO BE SOLVED: To produce H_2O_2 high in conc. under low pressure with high hydrogen selectivity by using a specified catalyst when H_2O_2 is produced by catalytically reacting O_2 with H_2 in a reaction medium.

SOLUTION: The catalyst used is prepared by depositing titania and platinum group metal (e.g. Pd) on a carrier preferably comprising silica or alumina, or by depositing titania on a carrier and further depositing

platinum group metal. Titania is preferably obtd. by hydrolyzing titanium alkoxide (e.g. ortho ethyl titanate) as the source material to obtain titanium hydroxide, depositing the obtd. titanium hydroxide on the carrier surface, and calcining preferably at 300 to 1,000°C. H_2O_2 is produced by catalytically reacting H_2 with O_2 in a reaction medium which is a soln. containing acid (e.g. phosphoric acid) and halide (NaBr) in the presence of the catalyst at the pressure of 0.1 to 2MPa.

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